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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,636	03/17/2006	Hyun-Ik Shin	15990316PUS1	3416
	7590 09/24/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 374 22040 0747	COVINGTON, RAYMOND K		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
		1625		
			NOTIFICATION DATE	DELIVERY MODE
			09/24/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary		Applica	Application No. Applicant(s)					
		10/572,	636	SHIN ET AL.				
		Examin	er	Art Unit				
		Raymor	d Covington	1625				
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet witl	h the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
	Responsive to communication(s) file	d on 17 March 200	6					
2a)□	Responsive to communication(s) filed on <u>17 March 2006</u> . This action is FINAL . 2b) This action is non-final.							
3)		<i>'</i> —		rs. prosecution as to th	e merits is			
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·	•					
· · ·		nlication						
•	Claim(s) <u>1-9</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
		e withdrawn hom c	onsideration.					
	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-9</u> is/are rejected.							
·	Claim(s) 1-3 is/are rejected. Claim(s) is/are objected to.							
•	Claim(s) are subject to restric	tion and/or election	requirement					
0)	ciami(s) are subject to restric	tion and/or election	requirement.					
Applicati	on Papers							
9)	The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are:	a) accepted or l	ɔ)☐ objected to b	y the Examiner.				
	Applicant may not request that any object	ction to the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is requ	iired if the drawing(s	s) is objected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>3/13/07, 8/1/06, 3/17/06</u> .	TO-948)	Paper No(s)	Immary (PTO-413) /Mail Date ormal Patent Application -				

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims employ the term 'derivative' which is ambiguous since derivative is referring to material "derived" from the named formula.

It is not clear whether or how further derivatizations may be included. It is recommended that the term "compound" be inserted in place of derivative.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shetty US 6699989 in view of DN 106:18399, Chu et al abstract (1986), DN

104:129888, Narita et al abstract (1985) and DN 128:321632, Antons et al abstract (1997).

Shetty teaches preparation of naphthyridine-3-carboxylic acid in the manner recited without intermediate isolation. See, for example, column 15 lines 20-55 and column 23. Shetty differs in that it uses triethyl orthoformate as the cyclizing agent.

However, the claimed DMF dialkylacetal is a known cyclizing agent for the 5-fluoro-6-chloropyridinepropanoic acid corresponding to applicants' line [11]. To use somewhat differ but otherwise analogous cyclizing agents in an otherwise known process would have been obvious to one of ordinary skill in the art as the results, cyclized product, would not have been unexpected and therefore unpatentable.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres at telephone number (571) 272-0867.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. C./ Examiner, Art Unit 1625 RKC /Janet L. Andres/ Supervisory Patent Examiner, Art Unit 1625